

BIL 244
System Programming

Final Report

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***** TEST 1 *****

Device properties: Intel® Core™ i5-3470 CPU @ 3.20GHz × 4

Test 1.1

RMP (Module1)

Inputs:

- Number of Matrices: 50
- Matrix dimension: 5
- Queue size: 100
- Number of threads: 4

Results:

Elapsed time: 3.39 sec

Multiplier Module (Module2):

Inputs:

Queue size: 100
Number of threads: 4

Verifier (Module 3) (Module1)

Inputs:

Queue size: 60
Number of threads: 4

Results:

- Elapsed time: 7.7972.79 sec
- # of invertable matrices: 50

- # of non - invertable matrices: 0
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Test 1.2

RMP (Module1)

Inputs:

Number of Matrices: 120

Matrix dimension: 3

Queue size: 100

Number of threads: 5

Results:

Elapsed time: 9.9625 sec

Multiplier Module (Module2):

Inputs:

Queue size: 120

Number of threads: 4

Results:

Elapsed time:

Verifier (Module 3) (Module1)

Inputs:

Queue size: 150

Number of threads: 2

Results:

of invertable matrices: 120

of non - invertable matrices: 0

Elapsed time: 10.10985.48 sec

Test 1.3

RMP (Module1):

Inputs:

Number of Matrices: 70
Matrix dimension: 4
Queue size: 80
Number of threads: 3

Results:

Elapsed time: 5.5599.02 sec

Multiplier Module (Module2):

Inputs:

Queue size: 20
Number of threads: 10

Verifier (Module 3) (Module1)

Inputs:

Queue size: 30
Number of threads: 4

Results:

Elapsed time: 6.6783.13 sec

***** TEST 2 *****

Device properties: Intel® Core™ i7-2670QM CPU @ 2.20GHz × 8

Test 2.1

RMP (Module1)

Inputs:

- Number of Matrices: 150
- Matrix dimension: 3
- Queue size: 200
- Number of threads: 2

Results:

Elapsed time: 11.119 sec

Multiplier Module (Module2):

Inputs:

Queue size: 100
Number of threads: 3

Verifier (Module 3) (Module1)

Inputs:

Queue size: 60
Number of threads: 4

Results:

- Elapsed time: 13.130 sec
 - # of invertable matrices: 148
 - # of non - invertable matrices: 2
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Test 2.2

RMP (Module1)

Inputs:

- Number of Matrices: 170
- Matrix dimension: 4
- Queue size: 120
- Number of threads: 3

Results:

Elapsed time: 13.1353

Multiplier Module (Module2):

Inputs:

Queue size: 125
Number of threads: 4

Verifier (Module 3) (Module1)

Inputs:

Queue size: 60
Number of threads: 4

Results:

- Elapsed time: 14.146 sec
 - # of invertable matrices: 170
 - # of non - invertable matrices: 0
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